

### ABSTRACT OF THE DISCLOSURE

Compounds including haptens, intermediates, and immunogens that are useful in the production of antibodies specific for the methylenedioxy class of amphetamine derivatives are described. Antibodies specific for the methylenedioxy class of amphetamine derivatives, reagent kits containing antibodies specific for the methylenedioxy class of amphetamine derivatives, methods of producing antibodies specific for the methylenedioxy class of amphetamine derivatives, and methods of detecting analytes including members of the methylenedioxy class of amphetamine derivatives are also described.

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